

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant (s): Michael J. C. Smith

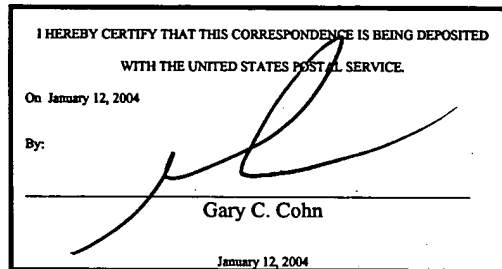
Serial No.: Unknown

Group Art Unit: Unknown

Filed: January 12, 2004

Examiner: Unknown

For: WING-DRIVE MECHANISM AND VEHICLE EMPLOYING SAME



Hon. Commissioner of Patents & Trademarks
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449. A copy of all cited patents and printed publications is enclosed.

☒ This paper is being filed before the latest of (a) three months after the filing date (if a national application), (b) three months after the date of entry of the national stage (if an international application or (c) before the date of mailing of the first action on the merits.

☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this information disclosure statement.

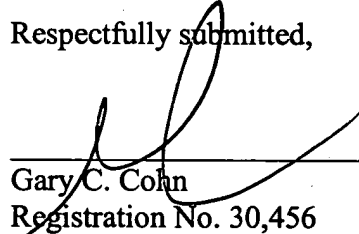
☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, no item of information contained

in this information disclosure statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this information disclosure statement.

- ☐ The fee set forth in 37 CFR §1.17(p) is enclosed.
- ☐ A petition requesting consideration of this information disclosure statement is enclosed.
- ☐ The petition fee set forth in 37 CFR §1.17(i) is enclosed.

The Examiner is requested to review each reference and formulate his or her own understanding thereof.

Respectfully submitted,



Gary C. Cohn
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INFORMATION DISCLOSURE STATEMENT <i>(Use Several Sheets if necessary)</i>	ATTY DOCKET NO. CSA 008	APPLICATION NO.
	APPLICANT Michael J. C. Smith	
	FILING DATE January 12, 2004	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	4,139,171	2/13/79	Harris	244	22	
	5,163,861	11/17/92	Van Ruymbeke	446	35	
	5,899,408	5/4/99	Bowers, Jr.	244	11	
	4,749,149	6/7/88	Gruich	244	22	
	4,718,877	1/12/88	Girsch et al.	446	313	
	4,793,573	12/27/88	Kelfer	244	11	
	4,729,748	3/8/88	Van Ruymbeke	446	35	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
					<input type="checkbox"/> <input type="checkbox"/>

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	Michael J. C. Smith, "Simulating Flapping Insect Wings . . .", Ph.D. Thesis, Purdue University, 5/25/95
	Michael J. C. Smith, "Reinstating Inquiry into Mechanized Flapping-Wing Flight . . .", AIAA 97-0533, 35 th Aerospace Sciences Meeting and Exhibit, January 6-10, 1997
	Smith et al., "The Advantages of an Unsteady Panel Method in Modelling . . .", J. Experimental Biology 199, 1073-1083 (1996).
	Michael J. C. Smith, "Simulating Moth Wing Aerodynamics: Towards the Development of Flapping-Wing Technology", AIAA Journal 34:1348-1355 (1996)
	DeLaurier and Harris, "A Study of Mechanical Flapping-Wing Flight", Aeronautical Journal, October 1993
	"Hargrave's Flying Machine, The American Engineer, May 1893, pp 233-34.
	Michael J. C. Smith, "Trajectory Control of Flapping Wings: . . .", 6 th AIAA/NASA/USAF Multidisciplinary Analysis and Optimization Symposium, September 4-6, 1996

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.

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				CSA 008			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE <i>IF APPROPRIATE</i>
		6,568,634	May 27, 2003	Smith	244	72	
		6,206,324	Mar. 7, 2001	Smith	244	72	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
		01/15971	Mar. 8, 2001	WIPO	B64C	33/02	<input type="checkbox"/> <input type="checkbox"/>
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)							
		"Spencer's Ornithopter", Model Airplane News, February 1999, pp. 40-43, 45					
		Hollingum, "Military to look to flying insect robots", Industrial Robot, 25:123-128 (1998)					
		Michelson, "Update on Flapping Wing Micro Air Vehicle Research", 13 th Bristol International RPV Conference, 30 March – 1 April 1998.					
		"Tiny Drones May Be Soldier's New Tool", Aviation Week & Space Technology, June 8, 1998, pp. 42-48					
		"Honey, I Shrunk the Plane", Machine Design, October 8, 1998 pp. 353-48.					
		"Several Micro Air Vehicles In Flight Test Programs", Aviation Week & Space Technology, July 12, 1999, pp. 47-48.					
		"Quetzalcoat", Model Aviation, August 1986, pp. 84-90, 158.					
		"Microplanes", Popular Science, January 1998, pp. 54-59.					
		Michael J. C. Smith, "Leading Edge Effects on Moth Wing Aerodynamics, . . .", 14 th AIAA Applied Aerodynamics Conference, June 17-20, 1996					
		"Learning From the Birds and Bees", I. D. Magazine, November 1998, pp.66-69.					
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